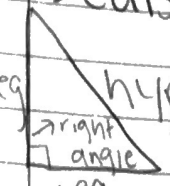
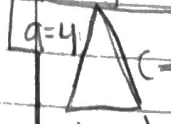
10/12/16

Pythagorean Theorem

- Deals w/ right triangles



Hypotenus - Across from the right angle



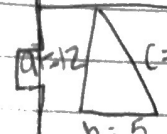
$a^2+b^2=c^2$

$4^2+1^2=6^2$

$16+1 \neq 36$

$17 \neq 36$

No not a RT

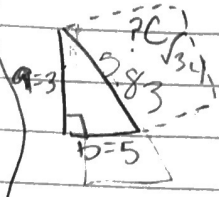


$12^2+5^2=13^2$

$144+25=169$

$169=169$

Yes



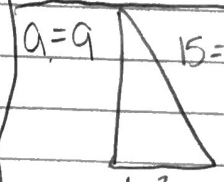
$a^2+b^2=c^2$

$3^2+5^2=c^2$

$9+25=c^2$

$\sqrt{34}=c^2$

$5.83=c$



$a^2+b^2=c^2$

$9^2+b^2=15^2$

$81+b^2=225$

$-81 \quad -81$

$\sqrt{b^2}=\sqrt{144}$

$b=12$

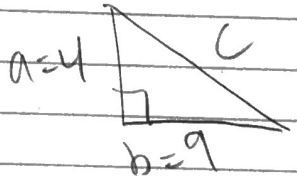
$a^2+b^2=c^2$

$4^2+9^2=c^2$

$16+81=c^2$

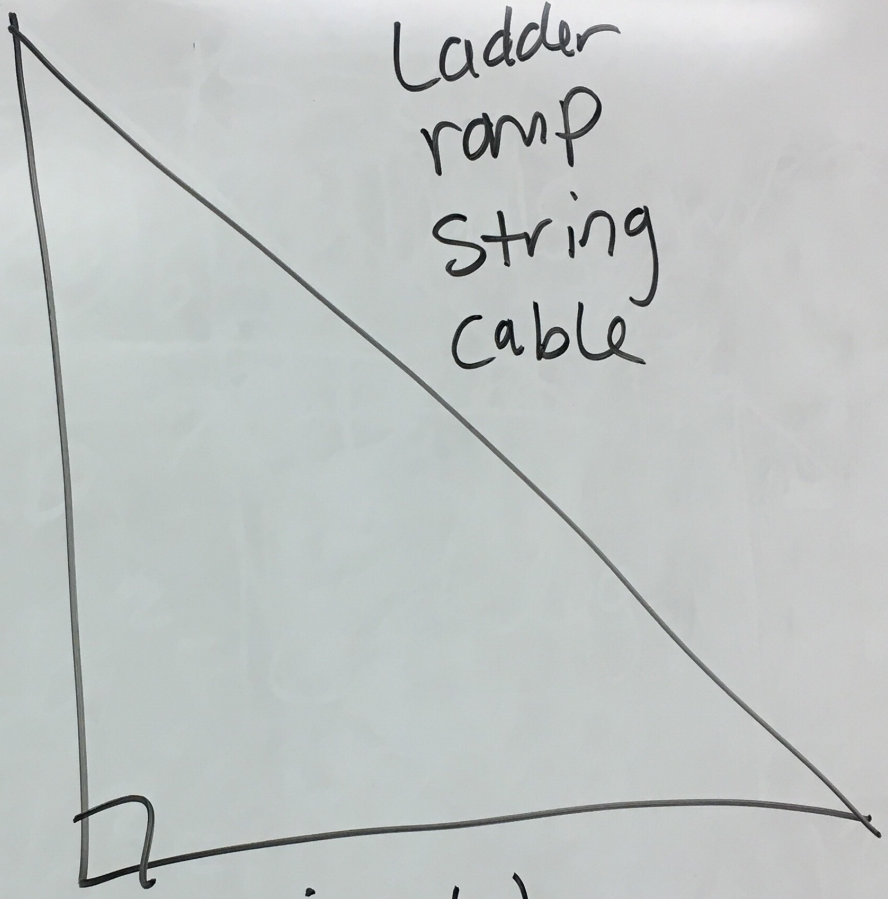
$97=c^2$

$\sqrt{97}$



Word problems

wall
tree
pole
altitude
vertical
height
top



Ladder
ramp
String
Cable

horizontal
far
base
ground
Shadow